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Datasheet AE900XT



AE900XT Can operate at a higher speed while exhibiting reduced wear, also the "slip-stick" behavior is reduced. This can be achieve by using a solid lubricate.

Application

Bearings and moving parts where low friction and long wear life are important.

Material

POM with a solid lubricate.

Availablity

	Value	Unit
Rod diameters	6-150	mm
Tube inside diameter	on request	
Tube outside diameter	on request	
Length standard	3000	mm
Sheet thickness	aug-50	mm
Sheet size	1000x2000	mm





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AE900XT - Specifications

Physical properties

	Test standard	Value	Unit
Density		1,44	g/cm³
Thermal conductivity		on request	
Specific heat capacity		on request	
Moisture absorption at 23°C, 50% RH	ISO 62	0,2	%
Water absorption at 23 °C	ISO 62	0,6	%
Flammability	UL 94	HB	[-]

Mechanical properties

	Test standard	Value	Unit
Tensile strength	ISO 527	63	MPa
Hardness	ISO 868	80	SHORE-D
Yield stress		on request	
Elongation at break	ISO 527	22	%
Modulus of elasticity in tension	ISO 527	2800	MPa
Bending modulus	Flexural test	2200	MPa
Flexural strength		on request	
Charpy impact strength +23°C		on request	
Charpy notched impact strength +23°C		on request	
Ball indentation hardness		on request	
Compressive modulus		on request	

Thermal properties

	Test standard	Value	Unit
Min. working temperature		-40	°C
Max. working temperature		100	°C
Intermittent working temperature		140	°C
Heat distortion temperature	Method A ISO 75	98	°C
Melting temperature	ISO 3146	165	°C
Thermal coefficient of linear expansion		on request	

Friction properties

	Test standard	Value	Unit

Electrical properties

	Test standard	Value	Unit
Dielectric constant		on request	
Dielectric loss factor		on request	
Dielectric strength	IEC 243	33	KV/mm
Dielectric constant at 1MHZ	IEC 250	3,7	[-]

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Electrical properties

Volume resistivity	IEC 93	10^{13}	Ω.cm
Surface resistivity	IEC 93	10^{13}	Ω
Resistance to tracking (CTI)		on request	

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